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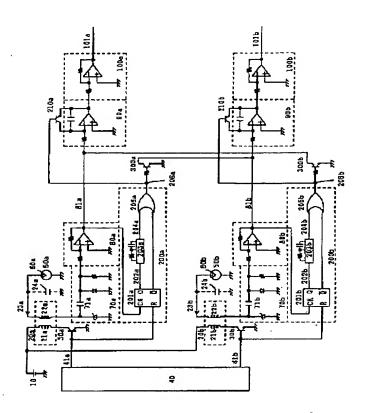
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TITLE

DEVICE AND METHOD FOR

DETECTING MISFIRE FOR INTERNAL

COMBUSTION ENGINE



ABSTRACT:

PURPOSE: To prevent the occurrence of malfunction of misfire detection owing to other current than an ion current by a method wherein the output of an ion current detecting means is rendered ineffective for a given period each time an ignition signal rises.

CONSTITUTION: Since a transistor 210a is turned ON for a given period by means of the output 206a of a mask circuit 200a, an integrator 90a is reset during this period, and other current than an ion current is not integrated during this period. Namely, in the integrator 90a, the output 72a of an ion current detecting, means 70a is integrated during a period of from a time to a time when a subsequent ignition signal 41a is outputted, and the integrated value is obtained as a positive voltage 101a by a reverse amplifier 100a. When no ignition is effected even if a spark discharge current flows by a subsequent ignition signal 41a for a given period, since an ion current on and after some time does not flow, an integrated value on and after that is reduced to 0. This constitution decides the occurrence of a misfire from the presence of the output 101a of the inversion amplifier 100a.

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